

552311

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number  
**WO 2004/085038 A1**

- (51) International Patent Classification<sup>7</sup>: **B01D 53/86**, 53/32, F01N 3/28
- (21) International Application Number:  
PCT/NL2004/000213
- (22) International Filing Date: 29 March 2004 (29.03.2004)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data:  
1023045 28 March 2003 (28.03.2003) NL
- (71) Applicant (for all designated States except US): **NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENS CHAPPELIJK ONDERZOEK TNO** [NL/NL]; Schoemakerstraat 97, NL-2628 VK Delft (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **OONK, Johan** [NL/NL]; Fabianusstraat 12, NL-7333 AC Apeldoorn (NL). **WILLEMS, Franciscus, Petrus, Thomas** [NL/NL]; Veldmoeren 32, NL-4824 JV Breda (NL). **CREIJGHTON, Yves, Lodewijk, Maria** [NL/NL]; Annastraat 16, NL-2611 VX Delft (NL).
- (74) Agent: **WINCKELS, C., S., J., H., F.**; Vereenigde, Nieuwe Parklaan 97, NL-2587 BN Den Haag (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PURIFICATION OF OFF-GASES FROM GAS-FIRED PLANTS

(57) Abstract: The invention relates to a method and apparatus for purifying off-gasses of gas-fired plants. According to the invention, just methane or both methane and Nox contents in an off-gas stream of a plant are reduced by contacting the off-gas stream with a plasma and a catalyst.

WO 2004/085038 A1